

PCT/FI 03/00003

## A. CLASSIFICATION OF SUBJECT MATTER IPC7: H05K 9/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: H05K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category\* PATENT ABSTRACTS OF JAPAN 1,16 X vol. 1996, no 10, 31 October 1996 (1996-10-31) & JP 81 67787 A (MITSUBISHI MATERIALS CORP ET AL) 25 June 1996 (1996-06-25) abstract 1-38 US 4890083 A (GEORGE TRENKLER ET AL), A 26 December 1989 (26.12.89), column 1, 1. .1 line 15 - line 64; column 2, line 43 - column 4, line 16, abstract 1-38 US 5210373 A (HARTWIN WEBER), 11 May 1993 A (11.05.93), column 2, line 30 - column 3, line 47 See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: later document published after the international filing date or priority document defining the general state of the art which is not considered to be of particular relevance date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" earlier application or patent but published on or after the international document of particular relevance: the claimed invention cannot be filing date considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) step when the document is taken alone document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination document referring to an oral disclosure, use, exhibition or other being obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed "P" "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report **18 4 -04-** 2003 1 April 2003 Name and mailing address of the ISA/ Authorized officer **Swedish Patent Office** Box 5055, S-102 42 STOCKHOLM Anna Flodman/MN Telephone No. +46 8 782 25 00 Facsimile No. +46 8 666 02 86



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C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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Information on patent family members

International application No. 30/12/02 PCT/FI 03/00003

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	4890083	A	26/12/89	NONE		
US	5210373	Α	11/05/93	DE EP JP	4029498 A 0476414 A 4254639 A	19/03/92 25/03/92 09/09/92